Math 200 - Quiz 3

Name _____

September 12, 2012

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (2 points) For each arithmetic sequence below, find a formula for the nth term.

   (a) $11, 20, 29, 38, 47, 56, \ldots$

   (b) $5, 13, 21, 29, 37, 45, \ldots$

2. (2 points) Consider the sum: $2 + 8 + 14 + \cdots + 644$

   (a) How many terms does the sum have?

   (b) Compute the sum.

3. (1 point) The nth term of the following sequence is given by $n^2 + 2n$. Find the 8th term.

$$3, 8, 15, 24, 35, \ldots$$